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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,467	02/15/2002	Mark C. Huth	10013443-1	1796
7590 08/24/2007 HEWLETT-PACKARD COMPANY Intellectual Property Administration			EXAMINER JOHNSON, EDWARD M	
P.O. Box 2724 Fort Collins, C	00		ART UNIT	PAPER NUMBER
1 ort commo, cc 90027 2 100			1754	
			MAIL DATE	DELIVERY MODE
		•	08/24/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(a)				
	Application No.	Applicant(s)				
Office Action Commons	10/076,467	HUTH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Edward M. Johnson	1754				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period was prepared to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a repl vill apply and will expire SIX (6) MONTH , cause the application to become ABAN	ATION.  ly be timely filed  IS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 23 No.	<u>ovember 2004</u> .					
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-54 is/are pending in the application.						
4a) Of the above claim(s) <u>21-54</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached (	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not re	eceived.				
Attachment(s)						
1) X Notice of References Cited (PTO-892)		mmary (PTO-413)				
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO/SB/08)</li> </ul>		Mail Date ormal Patent Application				
Paper No(s)/Mail Date  6) Other:						

Application/Control Number: 10/076,467 Page 2

Art Unit: 1754

## DETAILED ACTION

## Election/Restrictions

1. Applicant's election with traverse of Group I in the reply filed on 11/23/04 is acknowledged. The traversal is on the ground(s) that the characterization of the claims contradicts their inventive elements. This is not found persuasive because of the reasons set forth in the requirement.

The requirement is still deemed proper and is therefore made FINAL.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-20 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Russell et al. US 5,354,420.

Regarding claims 1 and 17, Russell '420 discloses an apparatus for laser etching comprising an open air region for processing substrates, a laser therein, and a halogen gas supply

Application/Control Number: 10/076,467

Art Unit: 1754

(see abstract and Figs), which would inherently be capable of chemically reacting, dissipating, and configurable to the claimed aspect and removal ratios.

When the examiner has reason to believe that the functional language asserted to be critical for establishing novelty in claimed subject matter may in fact be an inherent characteristic of the prior art, the burden of proof is shifted to Applicant to prove that the subject matter shown in the prior art does not possess the characteristics relied upon. <u>In re Fitzgerald</u> et al. 205 USPQ 594. As a practical matter, the Office is not equipped to manufacture or obtain products and make resulting comparisons with the claimed invention.

Regarding claims 2-5, Russell discloses laser etching, which would at least suggest mechanisms for holding the substrate and moving the laser to perform the disclosed energizing and etching.

Regarding claims 6-8, Russell discloses means for gas supply (see Fig. 6).

Regarding claim 9, Russell discloses halogen gases and sulfides (column 17, bottom), which would at least suggest halosulfide.

Regarding claims 10-16 and 18-20, Russell discloses a laser, semiconductor etching, silicon and various halocarbons

Application/Control Number: 10/076,467

Art Unit: 1754

(Table 2) and it would be obvious to use close variants thereof through routine experimentation.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward M. Johnson whose telephone number is 571-272-1352. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley S. Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or

Application/Control Number: 10/076,467 Page 5

Art Unit: 1754

access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Edward M. Johnson Primary Examiner Art Unit 1754

EMJ